1 BEFORE THE POLLUTION CONTROL HEARINGS BOARD 2 STATE OF WASHINGTON 3 UNIVERSITY MECHANICAL CONTRACTORS, INC., a Washington Corporation; 4 ADVANCED COMBUSTION SYSTEMS, an Oregon Corporation; and ALSID, PCHB NO. 87-56 5 SNOWDEN & ASSOCIATES, INC., d/b/a AMERICAN SERVICES ASSOCIATES,) 6 a Washington Corporation, 7 FINAL FINDINGS OF FACT, Appellants, CONCLUSIONS OF LAW AND ORDER v. 9 PUGET SOUND AIR POLLUTION CONTROL AGENCY, 10 Respondent. 11

On March 13, 1987, Advanced Combustion Systems, University

Mechanical Contractors, Inc., and Alsid, Snowden & Associates, Inc.,

d/b/a American Services Association, filed a Notice of Appeal with the

Pollution Control Hearings Board, challenging the Puget Sound Air

Pollution Control Agency's ("PSAPCA") Final Order to Prevent

Construction, (Notice of Construction No. 2793) dated February 19,

1987), of an incinerator with heat recovery unit at the U.S. Veterans

Administration Hospital at 4435 Beacon Avenue South in Seattle,

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Washington. Appellants simultaneously filed a Motion and Memorandum in Support of an Early Hearing Date. The motion was not opposed and an early hearing date was scheduled.

On April 1, 1987, PSAPCA filed a Motion for Summary Judgment and supporting Memorandum and Affidavits, to which appellants filed a response on April 10, 1987. Argument was heard and the motion was denied on April 20, 1987.

On April 3, 1987, appellants filed a Motion for Interim Relief, requesting that at the conclusion of the hearing PSAPCA be directed to authorize the operation of the incinerator, pending the Board's final order in this appeal. PSAPCA opposed the motion, filing its response on April 20, 1987. Argument was heard and the motion was denied on that date.

On April 3, 1987, appellants also moved to strike the legal issue regarding Best Available Control Technology ("BACT"). Argument was heard and the motion was also denied.

The formal hearing on the merits was held on April 3, 1987 and continued to April 20, 1987. Present for the Board were Members Judith A. Bendor (Presiding), Lawrence J. Faulk (Chair), and Wick Dufford, Member. Appellants were represented by Attorney Charles K. Douthwaite. Respondent was represented by Attorney Keith D. McGoffin. Court reporters with Gene Barker & Associates recorded the proceedings.

At the hearing witnesses were sworn and testified. Exhibits were admitted and examined. Argument was heard. Parties subsequently filed Proposed Findings, Conclusions and Order. From the testimony, exhibits, filings, and arguments of the parties, the Board makes these FINDINGS OF FACT

Ι

The Puget Sound Air Pollution Control Agency ("PSAPCA") is an activated air pollution control authority under the terms of the State of Washington Clean Air Act, empowered to monitor and enforce emission standards for air pollutants, and to review and approve new sources of air pollution. PSAPCA has filed with the Board certified copies of its Regulation I and II, of which the Board takes official notice.

II

University Mechanical Contractors, Inc., ("University") is a Washington corporation. Advanced Combustion Systems ("Advanced") is an Oregon corporation with its principal place of business in Bellingham, Washington. Alsid, Snowden & Associates, Inc., d/b/a American Services Associates ("American") is a Washington corporation. The Veterans Administration ("VA") is not a party to this appeal.

III

The VA contracted with University to have an incinerator installed in its hospital in Seattle, Washington. University in turn subcontracted with Advanced to manufacture the unit and participate in installing it. American was hired to perform emission source tests on

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the incinerator. The incinerator is a heat recovery system designed to burn hospital wastes.

IV

In October 1983, United Industries Corporation ("United") wrote a two-page letter to PSAPCA, informing the authority it was serving as a consultant to the VA in the design and preparation of specifications for an incinerator with waste heat recovery for the VA hospital. The letter generally outlined certain proposed features of the incinerator, including a 1,200 pound per hour charge rate, and asked PSAPCA about emissions limitations, required control technology, and possible emission offsets available.

James Pearson for PSAPCA responded, (letter dated October 27, 1983), stating in pertinent part that:

- 1. [Particulate] [E]mission limits for the proposed system are 0.05 grains particulate matter per dry standard cubic foot, corrected to 12% CO<sub>2</sub>(exclusive of CO<sub>2</sub> from auxiliary fuel).
- 2. The proposed system must incorporate "best known available and reasonable methods of emission control" (BACT); reference Section 6.07(b)(2) of Regulation I. . . .

The letter also provided some information regarding emissions offsets.

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The incinerator design was completed in January 1984. Bids for construction were solicited on November 15, 1984.

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25 FINAL FINDINGS OF FACT

On February 22, 1985, United wrote PSAFCA a one-page letter, informing the agency it was assisting the VA in preparing bid specifications for "a new incinerator system," and that two potential systems were being considered: a heat recovery incinerator, and one with no means of heat recovery. Both systems were identified by United to have a maximum charge rate of 1,200 pounds per hour. United asked PSAPCA, among other matters, what particulate emissions standards would apply, and whether Best Available Control Technology would be required.

Harry L. Watters for PSAPCA (by letter dated March 1, 1985), answered in relevant part:

What particulate matter emission standards would 1. apply?

The standard for the incinerator with heat recovery is a properly sized and designed baghouse control or equivalent. To demonstrate equivalency, the control system should be capable of meeting 0.02 grains per standard dry cubic foot (gr/dscf) calculated to 12 percent carbon dioxide (exclusive of carbon dioxide from auxiliary fuel). This includes the back half of the Method 5 source test train.  $[\ldots]$ 

2. Would Best Available Control Technology (BACT) be required, and, if so, what would constitute BACT?

Yes. BACT for particulate matter (see response to no. I above) is more stringent than that required by Section 9.09 of Regulation I. Section 6.07(b)(2) requires that a new installation incorporate "best known and reasonable methods of emission control." This term is defined in Section 1.07(h) of Regulation I. A similar requirement is mandated by RCW 70.94.152. A copy of Regulation I is enclosed.

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The construction contract was awarded on May 9, 1985, and the winning bidders were give notice to proceed on June 4, 1985.

# VIII

On March 14, 1986, E. L. Loveland of the VA wrote PSAPCA for confirmation of an oral communication that the particulate matter emission standards stated in Pearson's letter of October 27, 1983 would apply. On March 26, 1986, in response, PSAPCA (by Harry L. Watters) wrote Loveland stating that the October 27, 1983, PSAPCA letter should be followed, rather than the March 1, 1985, one.

IX

On May 9, 1986, in response to a request, PSAPCA's Watters sent the VA forms for filing a Notice of Construction. The accompanying letter stated, in part, the following:

As noted in Mr. James Pearson's letter, dated October 27, 1983:

"Emission limits for the proposed system are 0.05 grains particulate matter per dry standard cubic foot, corrected to 12 percent CO<sub>2</sub> (exclusive of CO<sub>2</sub> from auxiliary fuel). This includes the impinger catch of the Method 5 sampling train." This was determined to be best available control technology (BACT) for this unit. Based on Agency experience, it is difficult for incinerators to achieve this level of particulate control without control equipment. Also enclosed is a copy of Regulation I. If you have any questions, please call me [ . . . ].

A Notice of Construction (Application No. 2793) was submitted to PSAPCA on July 9, 1986. On forms accompanying the application, the

equipment was identified as an incinerator with heat recovery boiler, emergency dump stack, and with capacity of and waste quantity to be burned - 900 pounds per hour.

An unsigned environmental checklist was concurrently submitted, which showed the VA as the project proponent, listed 800 pounds as the amount the incinerator would be able to handle, and recited that emissions would be less than existing.

IX

PSAPCA, by letter dated July 17, 1986, requested specific information to supplement the Notice of Construction, including a copy of the Architects and Engineers' designs and specifications, an operation and maintenance manual, information on the use of the emergency dump stack, source test data, and a chronology regarding bid solicitation and award. The letter concluded that the incinerator "was installed without approval."

At the hearing, appellants did concede that the incinerator was built and installation begun before the Notice of Construction was filed.

The VA replied on July 30, 1987, providing some of the information. The letter advised that the construction contractor had contractual responsibility to obtain necessary permits and licenses, and to furnish a system meeting all specifications; and that the architect/engineer had contractural responsibility to meet Federal. State and local standards and regulations. Title to the incinerator

was to pass only upon the Government's acceptance. At the time of the hearing, title had not passed to the VA.

#### XII

On August 6, 1986 PSAPCA issued an "Order to Prevent Construction Notice of Construction No. 2793. In that Order, PSAPCA stated that the proposed incinerator had not been demonstrated to be capable of "consistently meeting" the particulate emission standard of Regulation I, at Section 9.09(a)(2). The Agency concluded that three reports of previous source tests of a purportedly similar incinerator at Fort Lewis had failed to show compliance with the 0.05 grains standard. The agency also provided an analysis which concluded that two source tests provided by applicant from another incinerator were not acceptable.

# XIII

Appellants petitioned for reconsideration and requested permission to conduct source testing in accordance with Agency procedure on the incinerator in question. On August 27, 1986, PSAPCA granted approval to conduct a source test, and required a source test plan to be submitted two weeks before the test. The plan was submitted to PSAPCA.

After a preliminary test, a source test was conducted on December 19, 1986 by Wesley Snowden, a licensed engineer and principal with American, and his assistants. Waste was loaded at 7:40 a.m. and burning began. Three "runs" of the test were conducted, with the

first emission sampling done at 8:17 a.m., and final sampling done at 1:18 p.m. Emissions were measured only from the exhaust stack from the heat exchange boiler. The so-called "dump" stack was not directly measured for particulates. PSAPCA's air pollution source analyst was present during various times of the test.

VA personnel participated in the loading process, but appellants conceded that VA personnel had not been trained, as of that date, to operate the incinerator. To some extent, Advanced's project engineer, K. Edward Dahl, assisted in loading the incinerator, an operation involving placement of a cart full of refuse in position next to the incinerator and pressing three buttons in sequence. Except for loading procedures the incinerator operated under the direction of its built-in automatic controls during the source test; neither Mr. Dahl, Mr. Snowden, nor their assistants made adjustments to the incinerator itself during the test.

# XIV

American compiled the data collected during the source test and produced a report showing that the incinerator emitted particulates at an average rate of 0.042 grains per dry standard cubic foot during the test. The source test report was received by PSAPCA from the VA On January 15, 1987.

# XV

PSAPCA informed the VA and University (by letter dated January 26, 1987, enclosing memos analyzing the test), that the test did not

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demonstrate compliance with Agency requirements.

On February 19, 1987, PSAPCA, pursuant to 6.07(c) of Regulation I, issued its Final Order to Prevent Construction, stating that it had not been demonstrated that the proposed incinerator was capable of "consistently meeting the standard in Section 9.09(a)(2) of Regulation I." PSAPCA stated it based this conclusion on its letters of August 6, 1986 and January 26, 1987, and accompanying memos.

From this Order, the parties filed their appeals on March 13, 1987.

#### XVI

PSAPCA's objections to the December 19, 1986, source test were, in part, based on the perception that the incinerator was being operated and adjusted by Mr. Dahl whose sophistication in such matters exceeds that to be expected of VA hospital personnel and, therefore, the test did not present truly representative operating conditions. The testimony convinced us that Mr. Dahl's involvement had no demonstrable effect on the test results.

PSAPCA was also concerned about the absence of a damper on the "dump" stack. Without a damper, the agency thought, the "dump" stack emissions should have been measured. Expert testimony persuaded us that the omission of a "dump" stack damper is an appropriate design feature of this particular incinerator for safety reasons. Further, we find that the lack of such a damper had no effect on emissions

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FINAL FINDINGS OF FACT CONCLUSIONS OF LAW AND ORDER PCHB NO. 87-56

during the test, that all gas was pulled through the heat exchange boiler, and that the measurement of the exhaust stack only was appropriate.

PSAPCA additionally asserted that several operational aspects of the testing procedure were deficient on a technical basis. We were convinced that any technical problems with the test did not bias the results.

In sum, we find that the test results achieved were fairly representative of the unit's operation and that the source test conducted on December 1986, was valid for the purposes of determining the ability of the incinerator to comply with PSAPCA's emission standard for particulate matter.

#### IIVX

Appellants' experts admitted that better results -- perhaps .02 or .03 grams -- could be achieved if a baghouse were added to the incinerator installation.

Baghouses are a known and available means of emission control.

The incinerator at another large hospital in Seattle -- Swedish

Hospital -- is operating with an installed baghouse.

#### IIIVX

A rough estimate is that the addition of a baghouse to the VA incinerator would add \$80,000 to \$100,000 to the cost of the installation and double or triple the maintenance costs. However, no

1	rigorous cost analysis of these matters was presented; nor was
2	information on costs experienced elsewhere presented for incinerators
3	performing similar functions.
4	XIX
5	Any Conclusion of Law hereinafter determined to be a Finding of
6	Fact is hereby adopted as such.
7	From these Facts, the Board comes to these.
8	CONCLUSIONS OF LAW
9	ı
10	The Board has jurisdiction over these parties and these issues.
11	Ch. 43.21B RCW. Appellants have the burden of proof in this case.
12	II
13	The Washington Clean Air Act authorizes the Notice of Construction
	process: RCW 70.90.152. By this section, the Legislature has, in
15	effect, provided for a building permit requirement for new air
16	contaminant sources.
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18	The standard for approval under RCW 70.94.152 is whether the
19	proposed air contaminant source
20	will be accord with applicable rules and regulations in force pursuant to this chapter and
21	will provide all known available and reasonable methods of emission control.
22	methods of emission control.
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26	FINAL FINDINGS OF FACT
}	CONCLUSIONS OF LAW AND ORDER PCHB NO. 87-56 (12)

Thus, approval of a new source is subject both to demonstrated compliance with numerical emission standards established by regulation and to a requirement for installing advanced technology.

The level of performance needed to meet the emission standards part of this dual requirement may not be sufficient to meet the technology standard. Satisfying the latter may necessitate doing better than simply meeting the applicable numerical emission standard. See, Weyerhaeuser v. Southwest Air Pollution Control Authority, 91 Wn.2d 77, 82, 586 P.2d 1163 (1978).

III

PSAPCA has modeled its regulations on the enabling statute.

PSAPCA Regulation I at Section 6.03(b) states, in pertinent part,
that:

"no person shall construct, install or establish a new air contaminant source [ . . . ] unless a 'Notice of Construction and Application for Approval' [ . . . ] has been filed and approved by the Agency in accordance with Sections 6.07(a) or 6.11 [ . . . ].

Regulation I at Section 6.07 states in pertinent part:

- (b) No approval [to operate] will be issued unless .
  - (1) The source is designed and will be installed to operate without causing a violation of the emission standards.
  - (2) The source incorporates best available control technology and will meet the requirements of all applicable Standards of Performance promulgated by the United States Environmental Protection Agency. [emphasis added]

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The emission standards for this incinerator are to be found at Regulation I, Section 9.09, which states in pertinent part:

> It shall be unlawful for any person to cause or allow the emission of particulate matter if [ . . . ] the particulate matter discharged into the atmosphere from any single source exceeds the following weights at the point of discharge:  $[\ldots]$ (a)(2)

> After March I, 1986, in refuse burning equipment having heat recovery equipment, 0.05 grains for each standard cubic foot of exhaust gas, adjusted or calculated to 12% carbon dioxide.

> > v

We conclude, on the basis of the valid source test of December 19, 1986, that the incinerator in question has been demonstrated to be capable of operating in accord with applicable emission standards and hold that the denial of the Notice of Construction for failure to make such demonstration was an error.

V١

However, we conclude that compliance with the applicable technology standard has not been demonstrated, and therefore, decide that PSAPCA's denial of the Notice of Construction must be upheld.

VII

The technology standard is defined by PSAPCA Regulation I at Section 1.07 (h) under the rubric "Best Available Control Technology (BACT)", PSAPCA's definition substantially tracks the definition of

BACT provided in the State's regulations at WAC 173-403-030(8). The WAC definition, however, expressly adds:

The requirement of RCW 70.94.152 that a new source will provide "all known available and reasonable methods of emission control" is interpreted to mean the same as best available control technology.

We conclude that the technology requirement of RCW 70.94.152 and BACT mean the same thing in the context of this case.

#### VIII

The technology that is required is one that is "known", and "available", as opposed to newly developed by the applicant.

Weyerhauser, supra, at 81-82. It also has to be "reasonable"; 1.e., economically and technologically feasible Id. The mere fact that a system might cost more to install and operate does not mean under the law that it is not economically feasible. Id., at 85.

We conclude that the incinerator in question does not incorporate BACT. Particulate emissions can be further lowered by use of a baghouse — a known and available method. No evidence was presented that use of a baghouse is technologically infeasible. Appellant's rough estimate of increased cost is insufficient by itself to prove that the incinerator is not economically feasible.

IX

Appellants appear to be contending (hence the lengthy chronology) that PSAPCA has misled them such that the Agency should be estopped

from requiring BACT. It is evident that PSAPCA's communications have not been a model of clarity.

But it cannot be disputed that appellants filed the Notice of Construction application after design and bidding were complete and after construction and installation began. They did not wait for an approval before proceeding.

Estoppel, as an equitable principal, can only be raised by parties with "clean hands," and appellants have not demonstrated such hygienic attainment.

Additionally, estoppel does not apply if to do so would authorize an unlawful act. See, J & B Development Co. v. King County, 29 Wn.App 942, 631 P.2d 1002 (1961). In this instance, BACT is required by law and regardless of somewhat murky preliminary communication as to what would constitute BACT in this case, appellants did not obtain a definitive determination of the matter through the statutory procedure prior to going forward with their project.

We conclude that applying estoppel against PSAPCA would frustrate the purpose of the laws and thwart public policy. See, Finch v.

Matthews, 74 Wn.2d 161, 169-170, 443 P.2d 833 (1968). Allowing a new source of pollution to add emissions over what is known, available and feasible to attain, would impermissibly burden a public which has little choice over the air it breathes. To do so would frustrate the purpose of the Clean Air Act and Regulation I to achieve clean air.

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FINAL FINDINGS OF FACT CONCLUSIONS OF LAW AND ORDER PCHB NO. 87-56

Appellants' attempted to eliminate the BACT issue, claiming lack of notice. We conclude that notice was adequate. BACT was raised by PSAPCA by motion filed two days in advance of the first day of hearing. However, the hearing was held on two separate days, thirteen days apart, providing appellants with ample opportunity to respond; an opportunity they took advantage of. Appellants have not demonstrated prejudice or undue surprise.

City of Marysville v. PSAPCA. 104 Wn.2d 115, 702 p.2d 469 (1985), cited by appellants, is not pursuasive authority for their motion to strike BACT as an issue. As that case recites: "'[T]he most important fact about pleadings in the administrative process is their unimportance.'" Id., at 119. Pleadings in an administrative proceeding serve a notice function. But proof may depart from pleadings and the pleadings may be deemed amended if there is no undue surprise or prejudice. Id. Here PSAPCA, in effect, asserted BACT as an alternate basis for its denial of the Notice of Construction application at a time and under circumstances which permitted the issue to be litigated in these procedings.

The Marysville case reversed a decision which was based upon finding the violation of different standard from the one under which the case was tried. Such is not the situation here.

XI

Any Finding of Fact which is deemed a Conclusion of law is hereby adopted as such.

	From these Conclusions, the Board enters this:
2	ORDER
3	THEREFORE, the Order to Prevent Construction is AFFIRMED
4	DONE this 24th day of August, 1987.
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6	POLLUTION CONTROL HEARINGS BOARD
7	[See separate opinion]
8	JUDITH A. BENDOR, Presiding
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10	WICK DUFFORD, Chairman
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12	LAWRENCE V. PAULK, Member
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27	FINAL FINDINGS OF FACT CONCLUSIONS OF LAW AND ORDER PCHB NO. 87-56 (18)

Bendor - Concurring in Part and Dissenting in Part: 2 3 I agree that the Order to Prevent Construction should be affirmed 4 on the basis of the failure to demonstrate compliance with BACT. 5 respectfully dissent only from that portion of the majority opinion 6 which holds that the December 1986 test demonstrated compliance with 7 the particulate emissions standards. (Conclusion of Law V). 8 9 The incinerator was tested at a 720 pound per hour loading rate, 10 despite its being characterized in the Notice of Construction, and 11 Appellants' Test Plan submitted to PSAPCA, as a 900 pound per hour 12 system. 13 ΙI Particulate emission concentrations from the three test runs were 15 calculated by American to be: 16 First Run: .034 grains/dry stand cubic foot of exhaust as 17 corrected to 12% carbon dioxide (CO2) less the 18 CO2 contribution from the auxiliary fuel. [hereafter: "gr/dscf"] Second Run: .039 gr/dscf Third Run: .054 gr/dscf III During Run 1 the nozzle-size was changed.

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PCHB NO. 87-56

Throughout the test American systematically failed to sample for particulate emissions during the waste loading cycle. No evidence was presented that burning or release of emissions ceased during loading or that this failure to sample was a good engineering practice.

v

PSAPCA's Regulation I at Section 11.01 states (in part):

All definitions and sampling procedures shall conform to current Environmental Protection Agency ["EPA"] requirements where applicable and available, otherwise by using procedures and definitions adopted by the Board after public hearing.

In this case EPA's test sampling method applied, e.g. 40 CFR Pt. 60. Method 5 of Pt. 60, Section 4.12 states in pertinent part:

Select a nozzle size [ . . . ] such that it is not necessary to change the nozzle size in order to maintain isokinetic sampling rates. During the run, do not change the nozzle size.

VI

Applicable regulations at 40 CFR Pt. 60.8(f), further state (in part) that:

(f) Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standards, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost

or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs. [emphasis added].

40 CFR Pt. 60.2 defines a "run" to be the:

[ . . . ] net period of time during which an emission sample is collected. Unless otherwise specified, it may be either intermittent or continuous within the limits of good engineering practice.

# VII

Changing the nozzle size during Run No. 1 invalidates that run.

Appellantshave not demonstrated that their efforts to compensate for the nozzle change constituted an "equivalent method", so as to satisfy required criteria. See, 40 CFR Pt. 60.2.

Since only two runs thereby remain, they are insufficient to meet the 50 CFR Pt. 60.8(f) "three separate run" requirement for a new source test. Furthermore, there is no evidence that any of the situations which would lawfully permit averaging the two remaining runs (e.g. forced shutdown, loss of sample train, etc.) were present. Nor was approval for averaging only two runs requested and received. To the contrary, PSAPCA has objected to averaging two runs.

# VIII

Appellants have failed to demonstrate that failing to sample during waste loading was a good engineering practice. Therefore, on that basis all three runs are invalid. See, 40 CFR Pt. 60.2.

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BENDOR - PARTIAL DISSENT PCHB NO. 87-56

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BENDOR - PARTIAL DISSENT PCHB NO. 87-56

Emission tests are required to represent real operating conditions. Appellants failed to test at the 900 pound per hour loading rate, thereby failing to follow the proposed operating level in the Notice of Construction or their own Test Plan. The test therefore does not mirror proposed real operating conditions and is therefore invalid. Alternatively the test is at best only valid for a 720 pound level of operation, to the extent otherwise invalid.

X

For all the foregoing reasons, PSAPCA's denial of the Notice of Construction, as based on a determination that particulate emissions standards compliance had not been demonstrated, was correct.

In addition, the bypass stack was not sampled for emissions. The stack has no damper on it. Appellants did not prove that emissions could not be released through that stack, but rather that during the December 1986 no emissions were released. Therefore, if retesting is required, sampling that stack is merited.

Lastly, prior to such retesting, VA personnel should be trained to operate the incinerator so that the assistance of outside personnel is not required, so as to dispel related questions about approximating true operating conditions.

WDITH A: BENDOR, Presiding